

FIG. 1

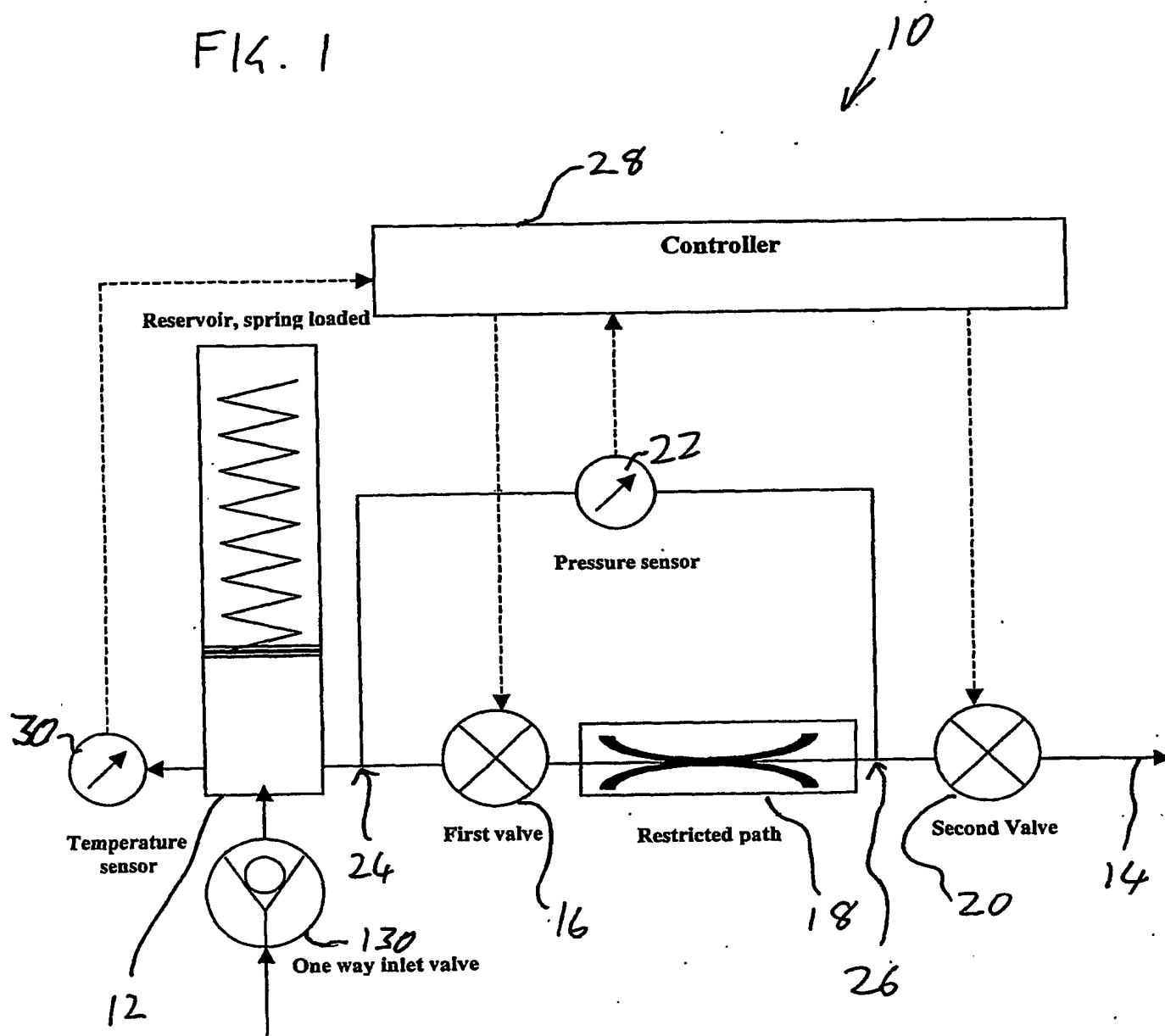
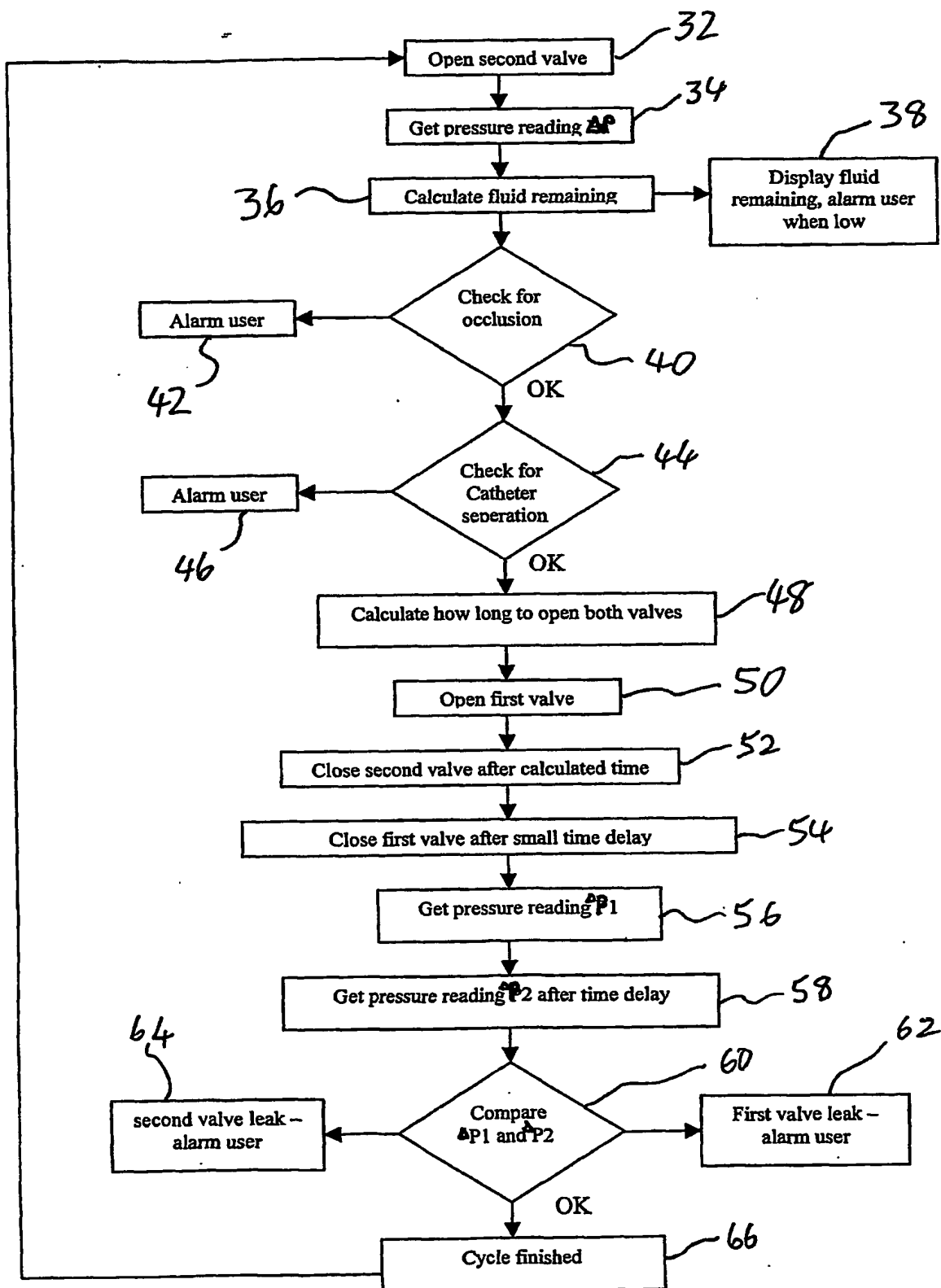


FIG. 2



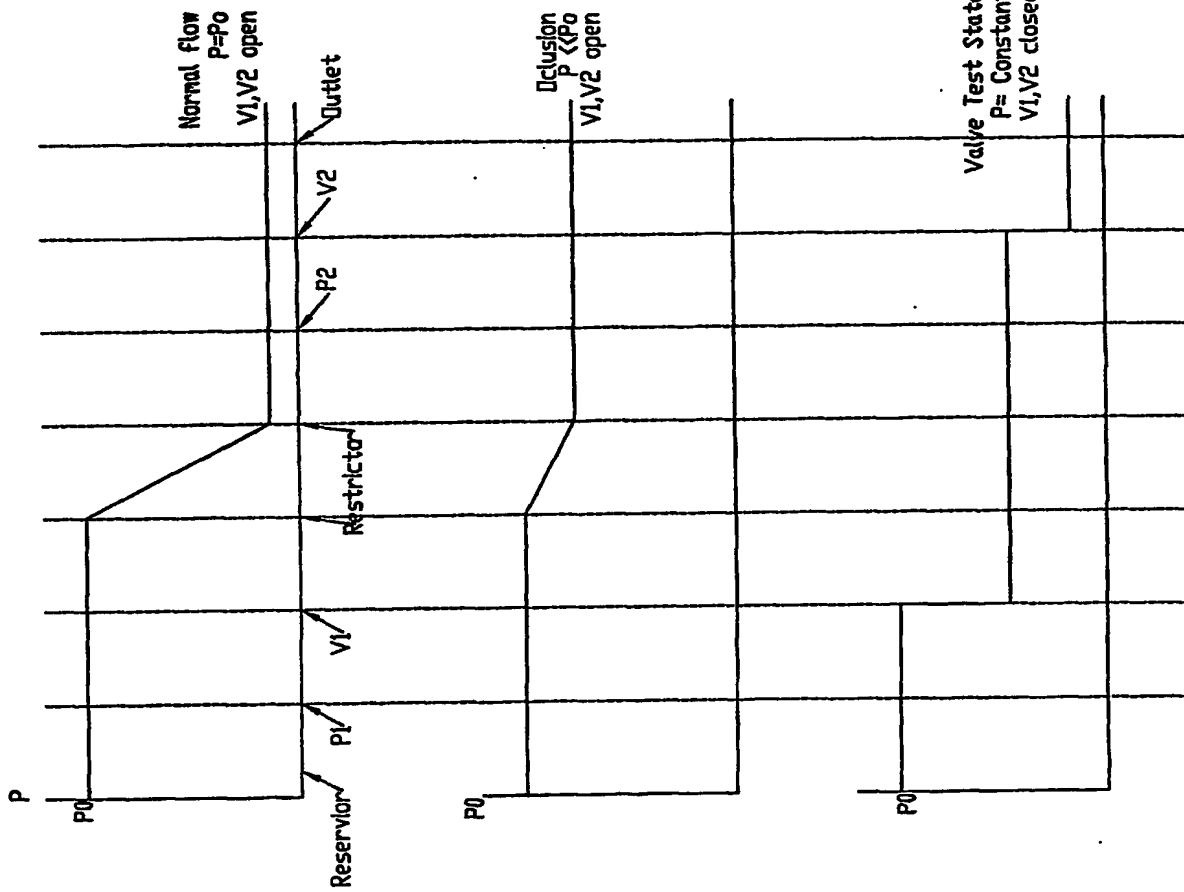


FIG. 3A

FIG. 3B

FIG. 3C

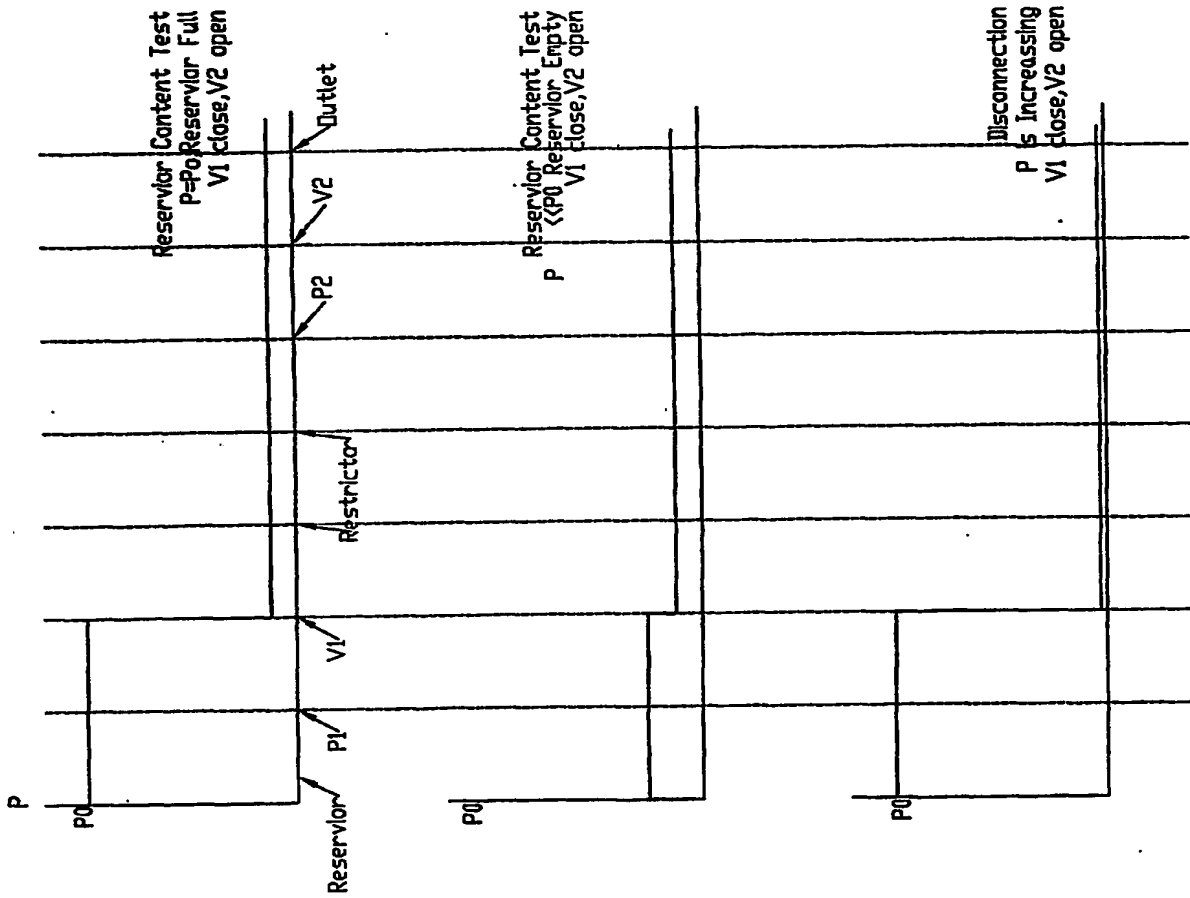


FIG. 3D

FIG. 3E

FIG. 3F

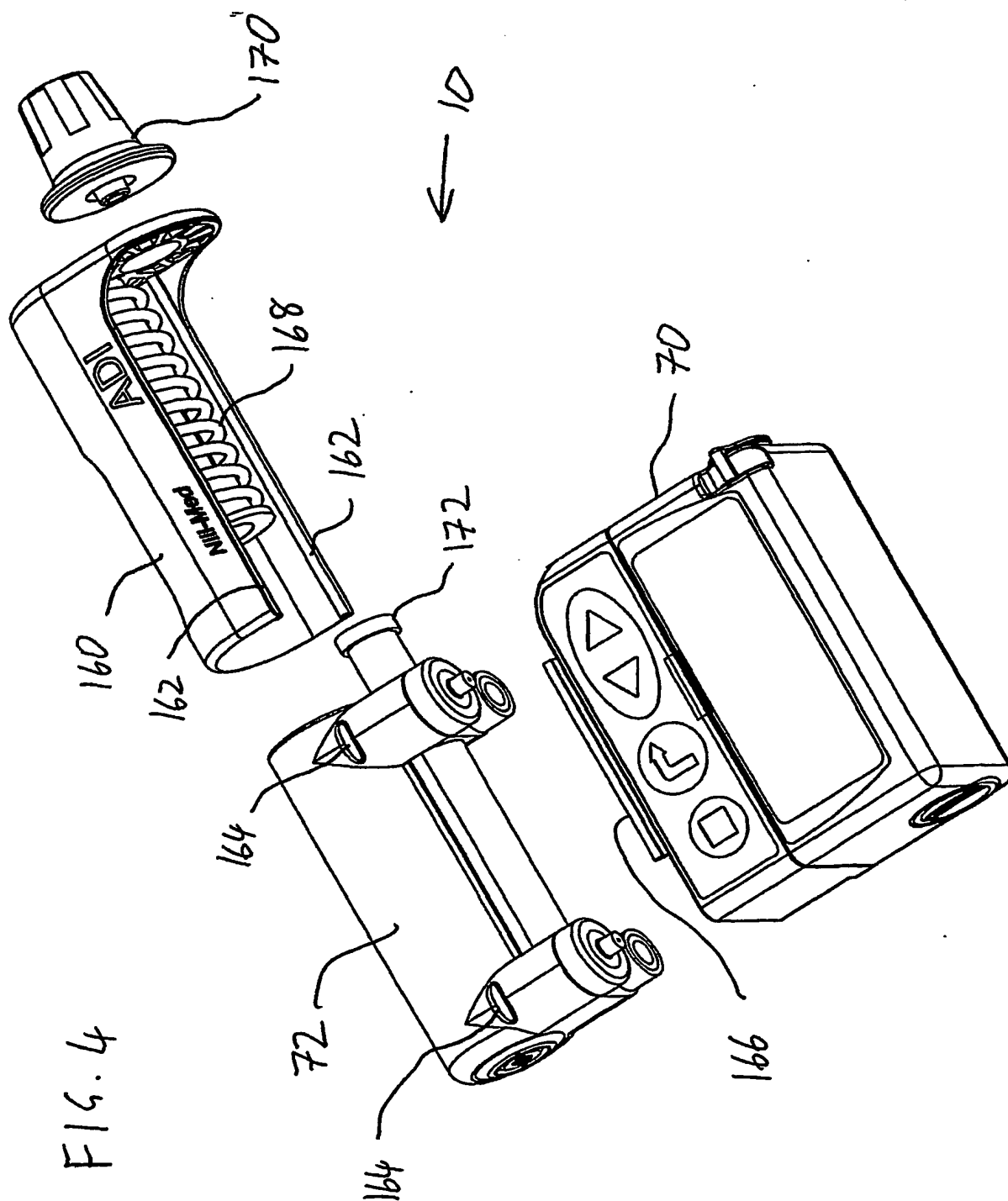


FIG. 5

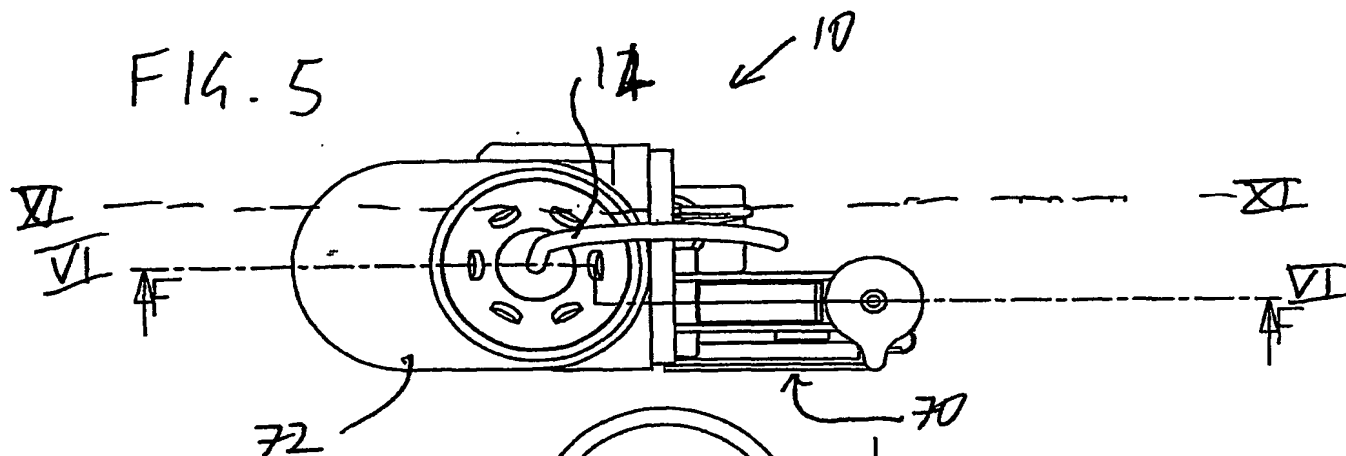


FIG. 6

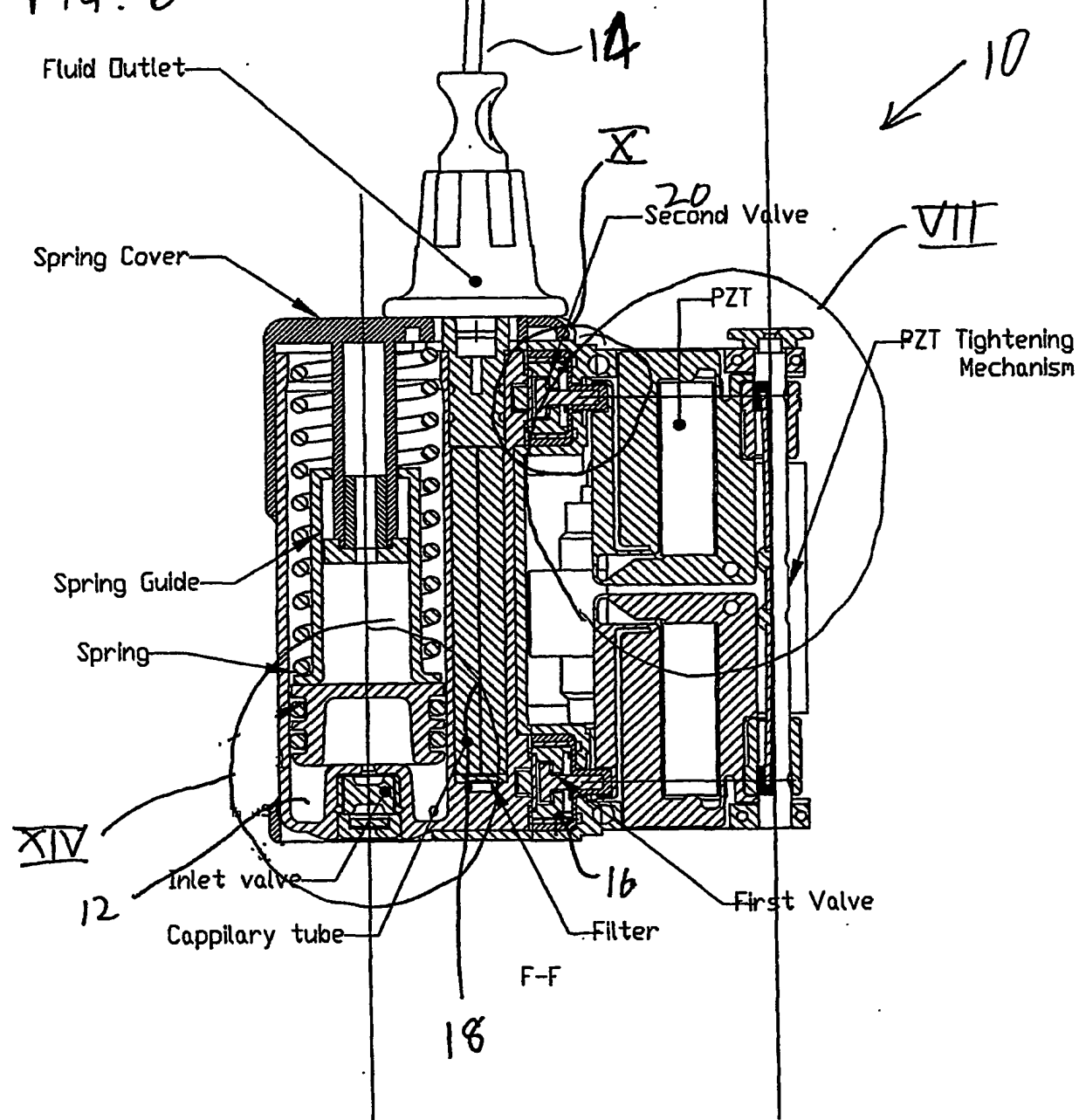
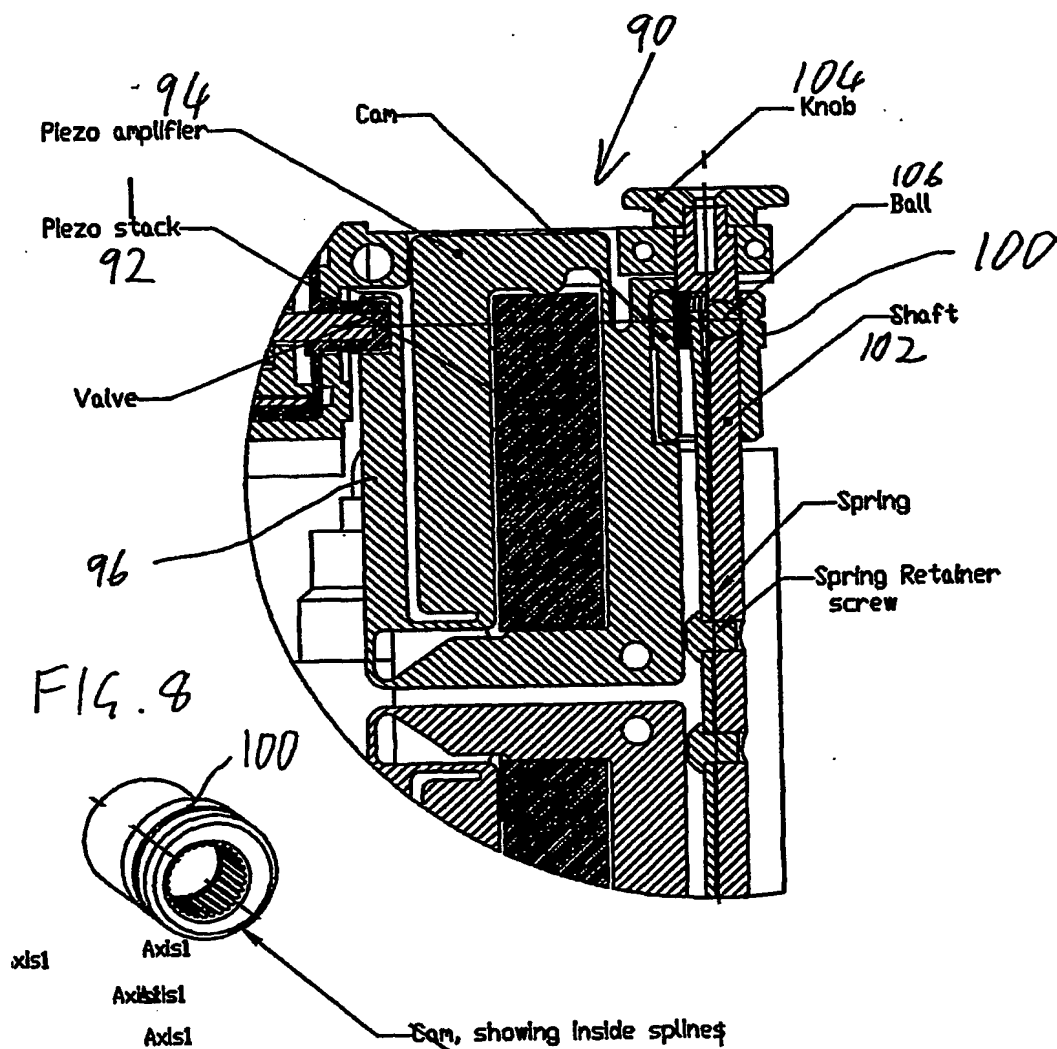


FIG. 7

Section Through Piezo and tightening mechanism



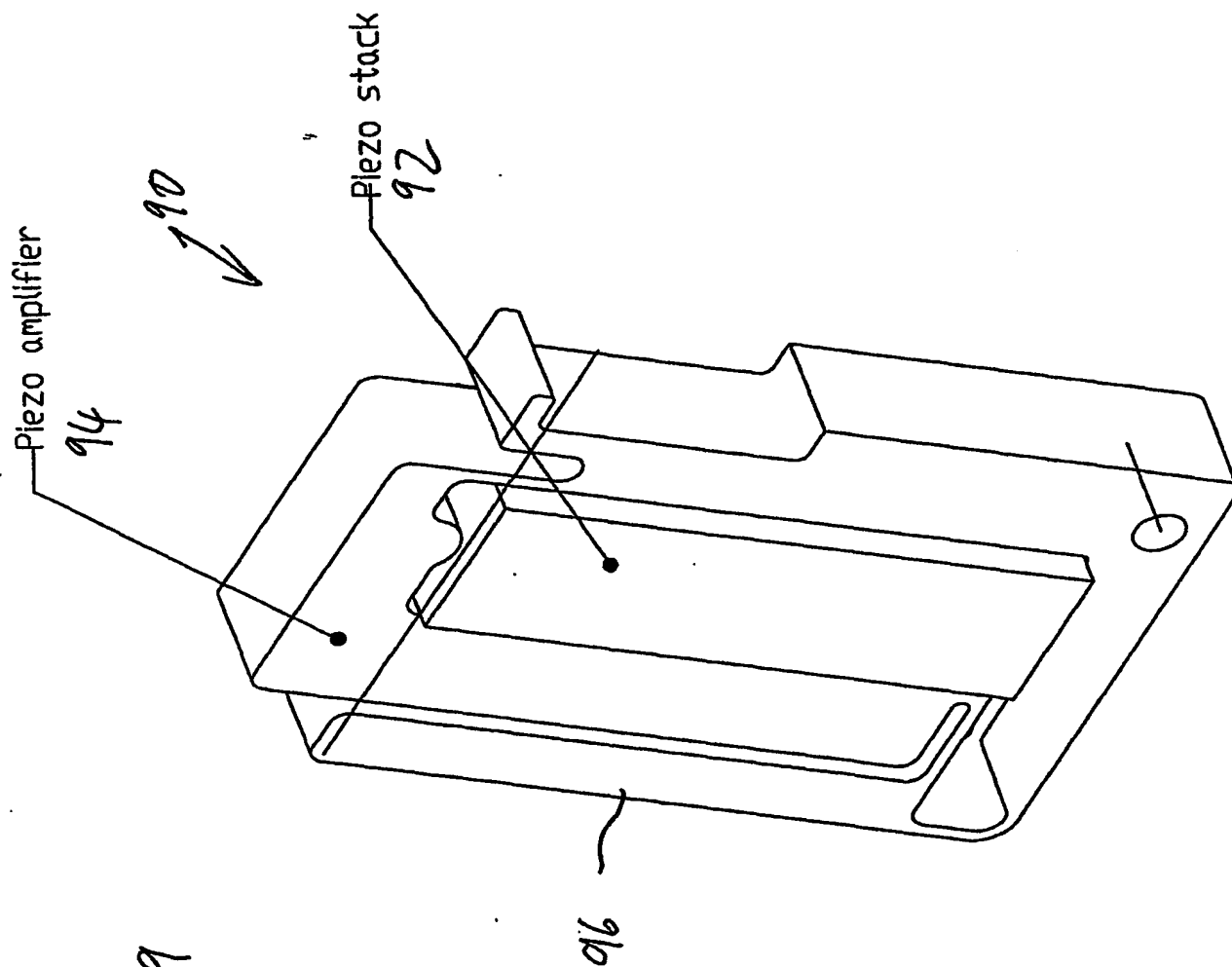
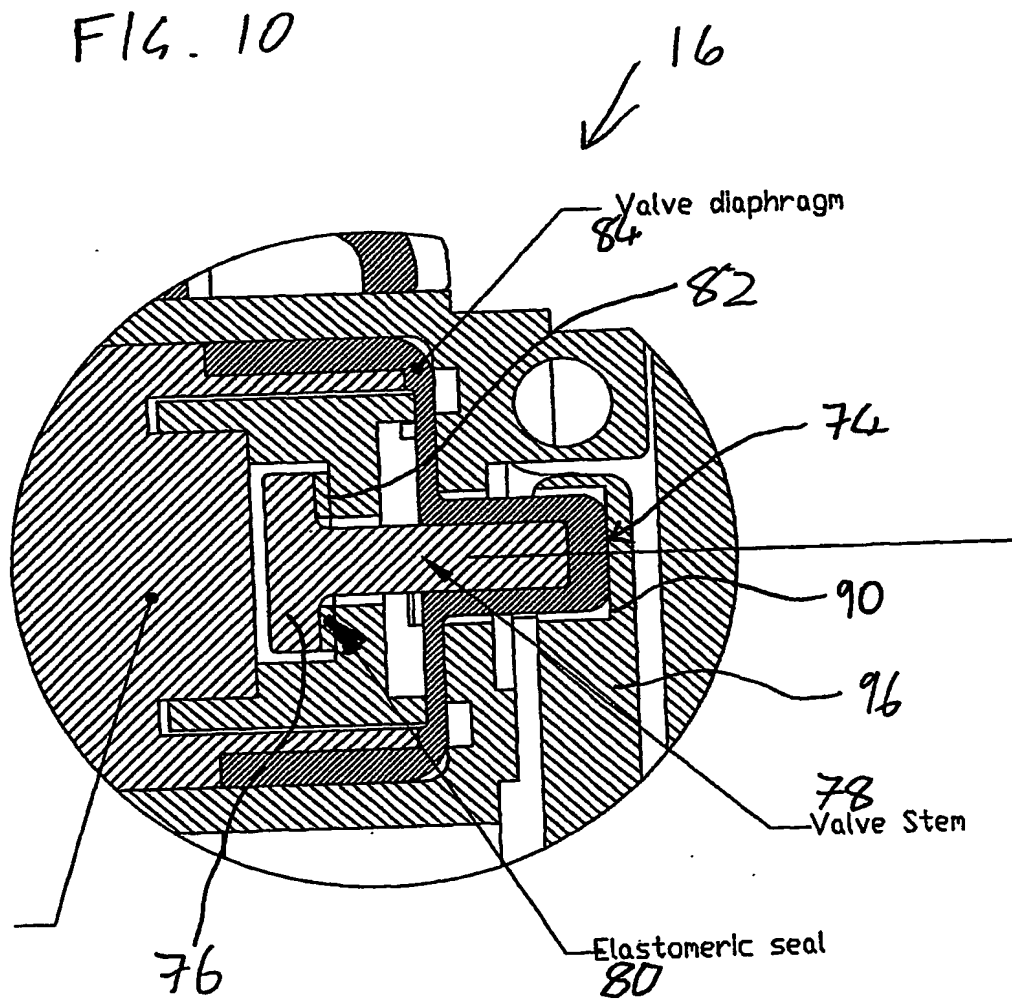


FIG. 9





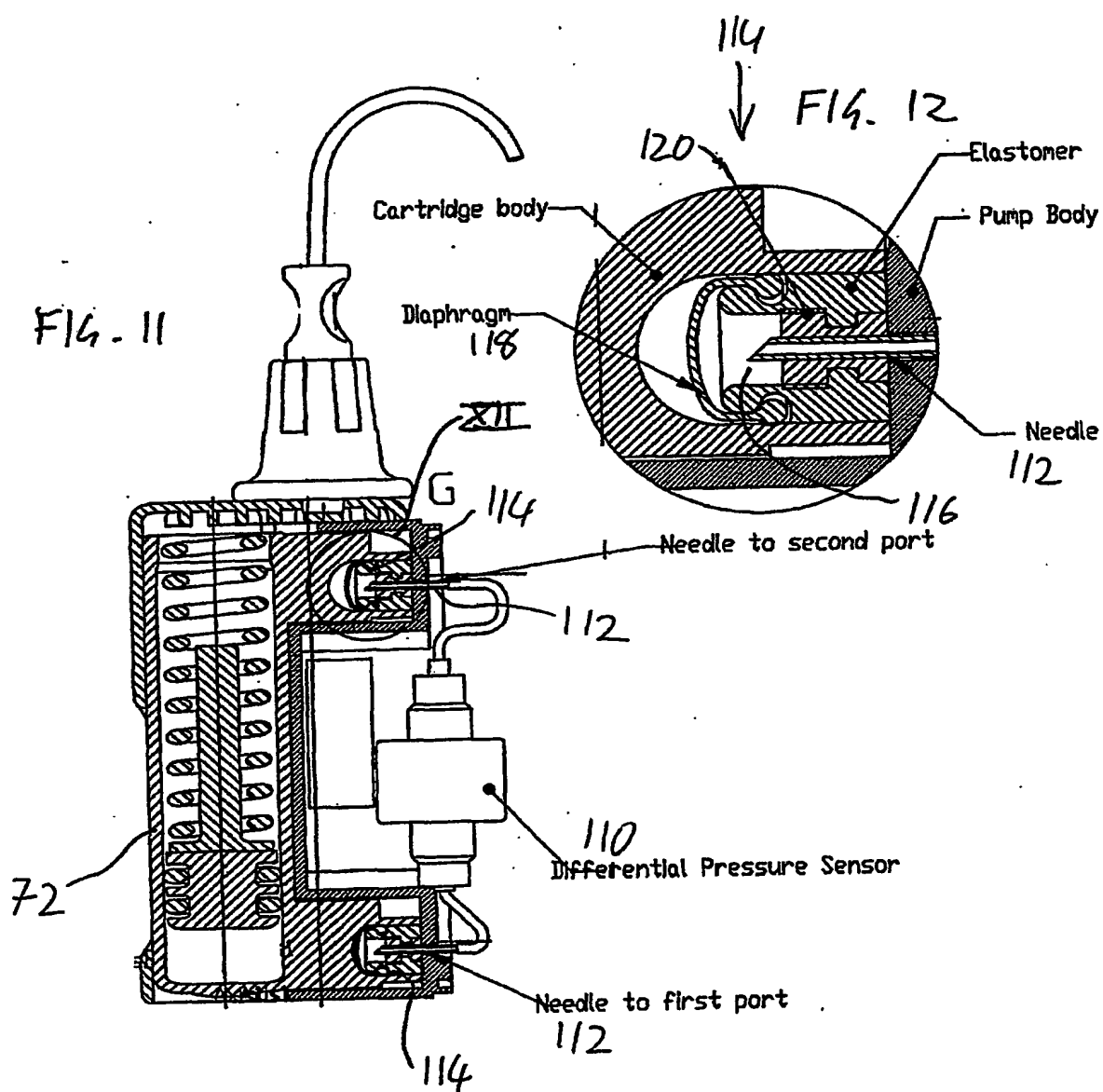


FIG. 13

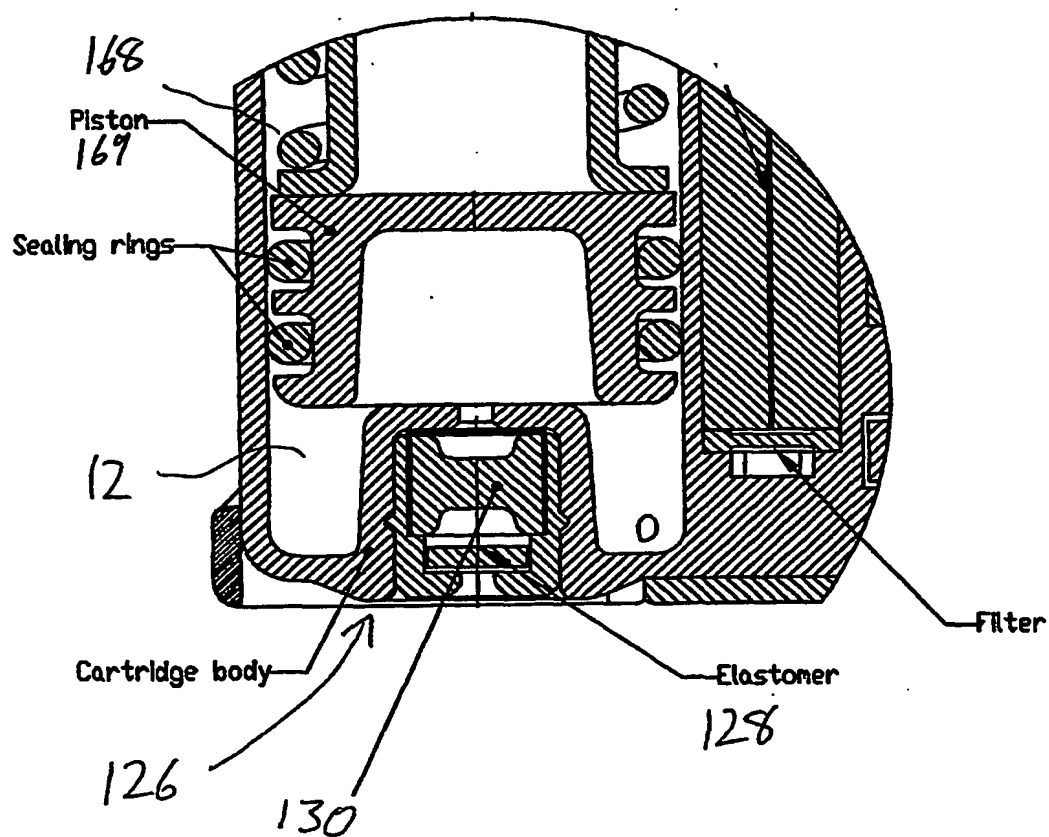


FIG. 14C

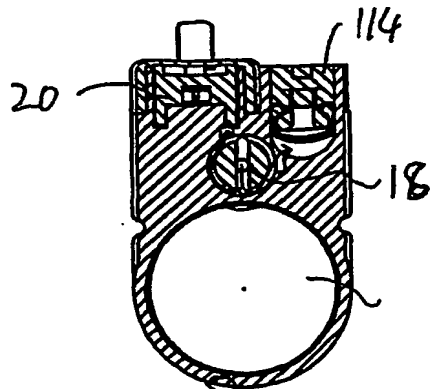
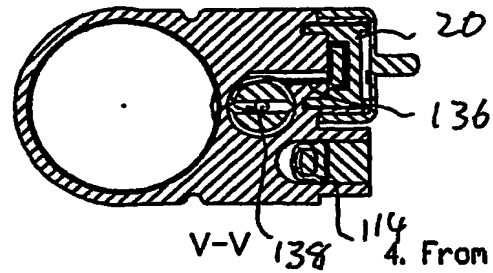


FIG. 14D

3. After capillary passage fluid goes port and to second valve inlet



4. From second valve to cartridge exit

FIG. 14A

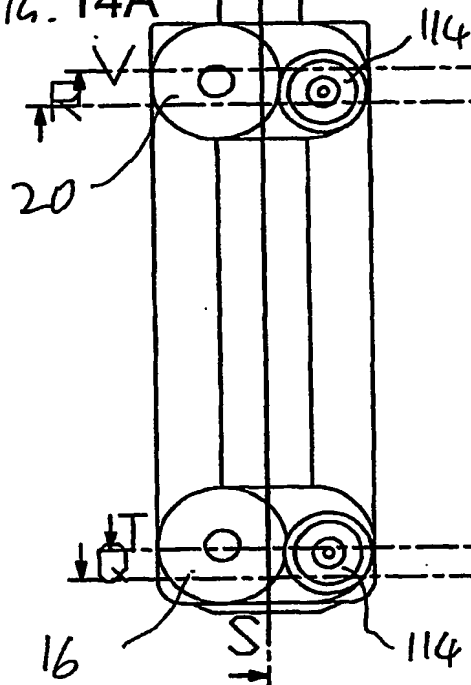


FIG. 14B

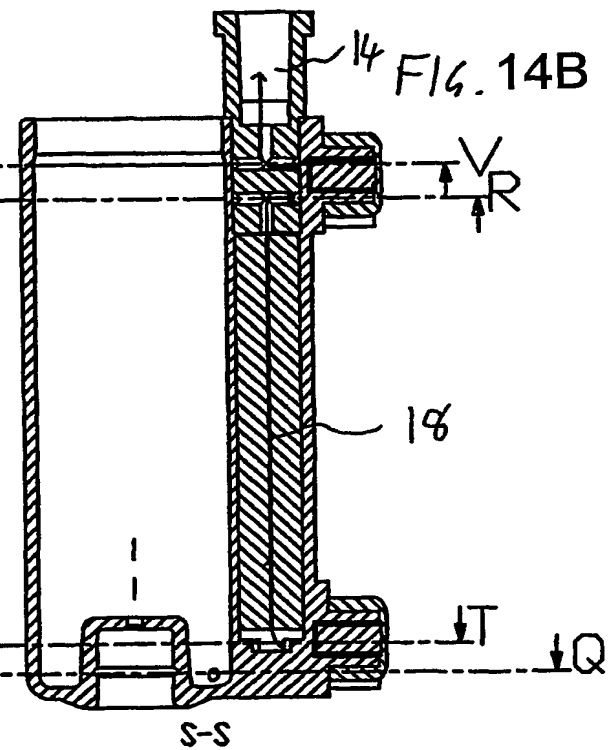


FIG. 14E

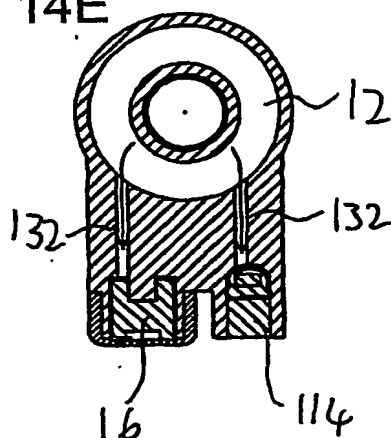
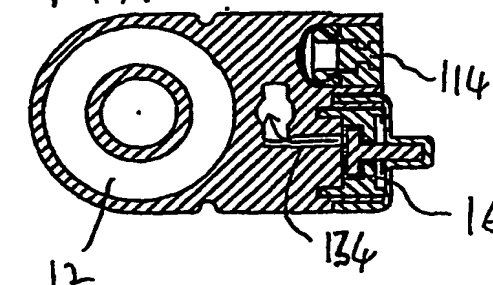


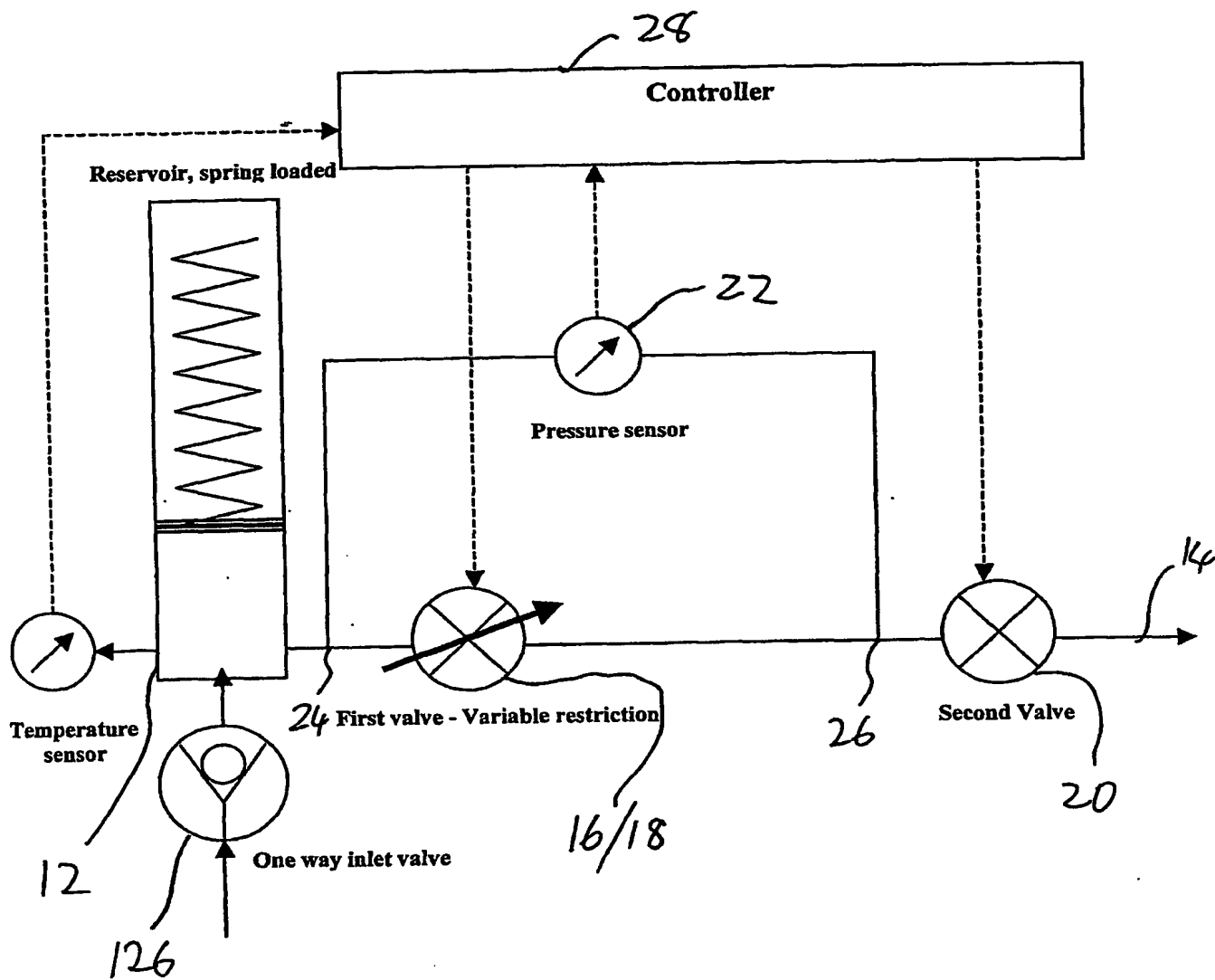
FIG. 14F



2. From first outlet to passage

1. High pressure from within cartridge goes to first valve inlet and to first port

FIG 15



F/G. 16

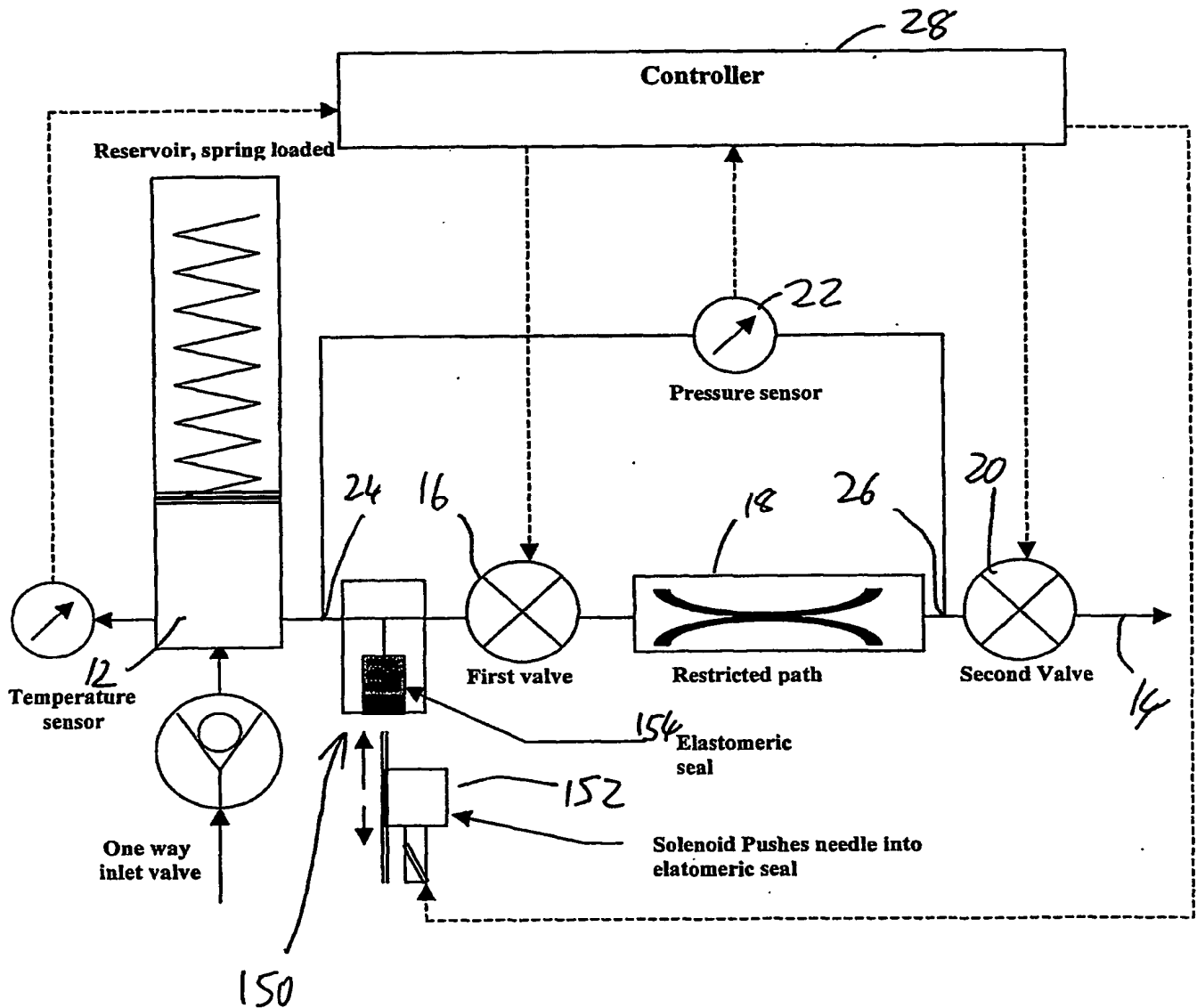


FIG. 17

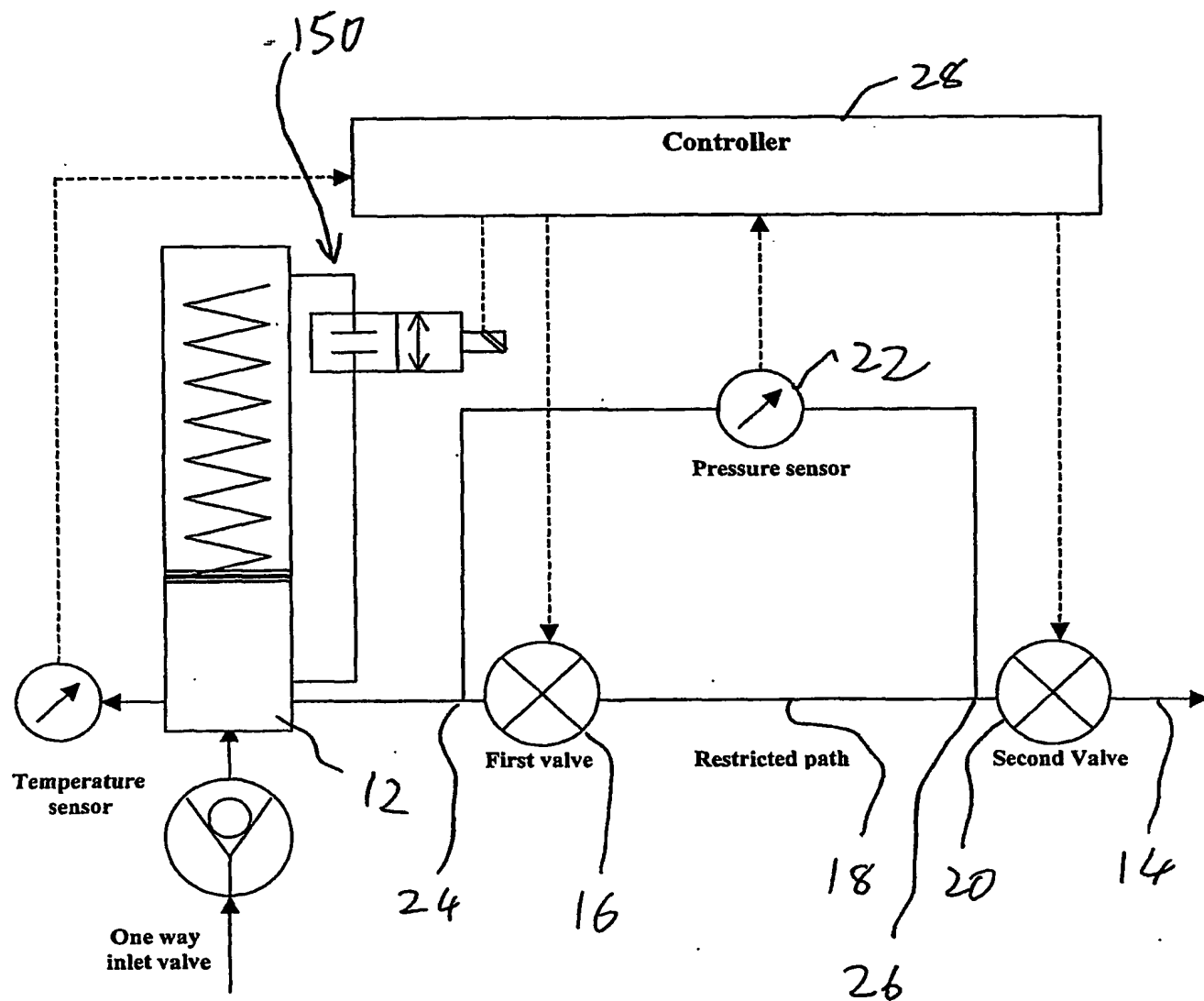


FIG. 18

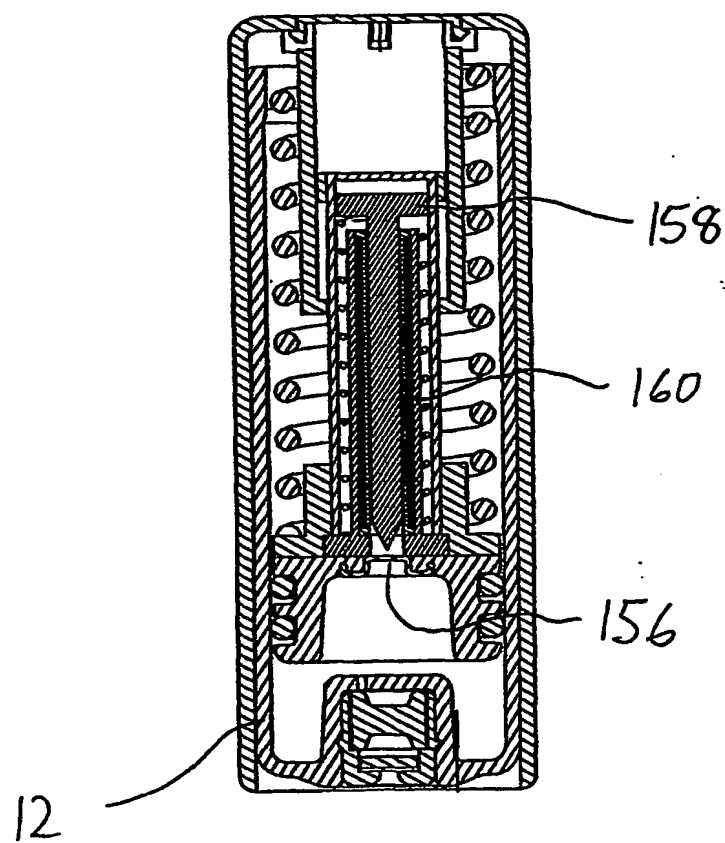




FIG. 19

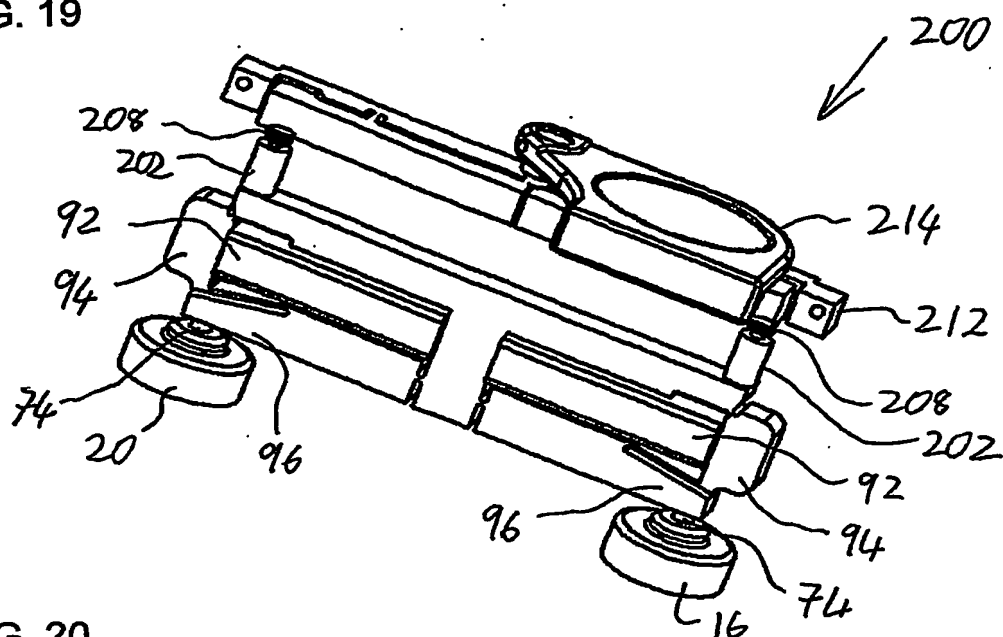
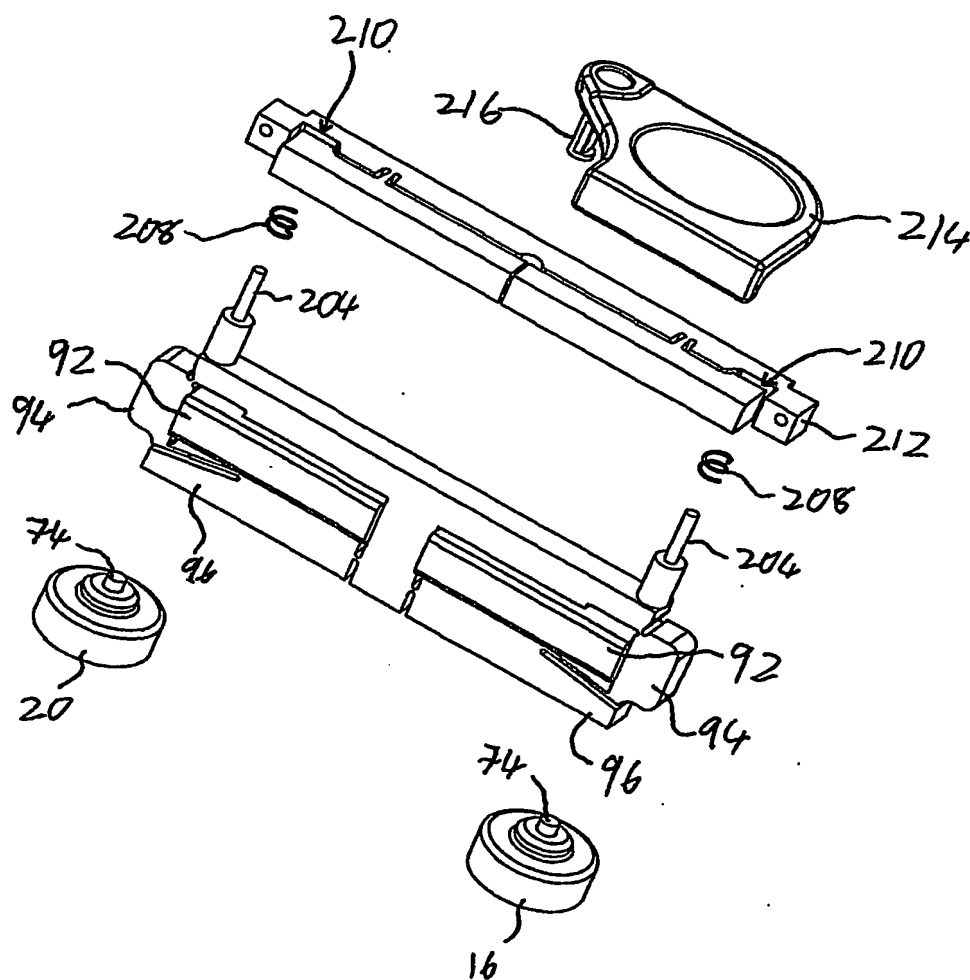


FIG. 20



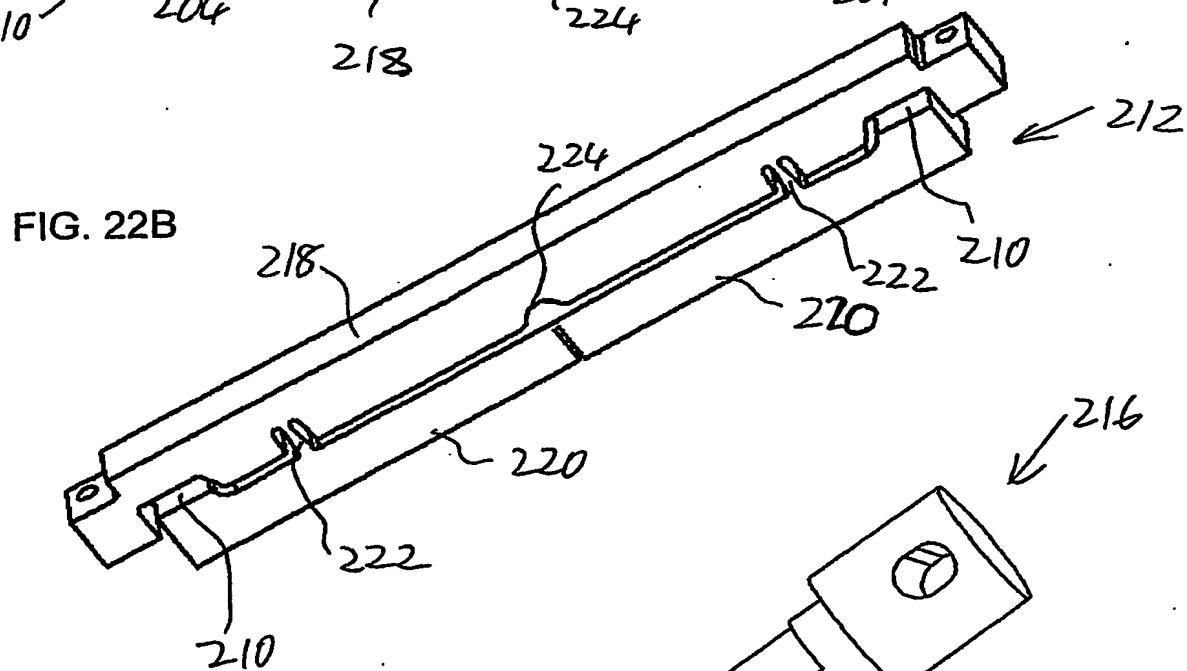
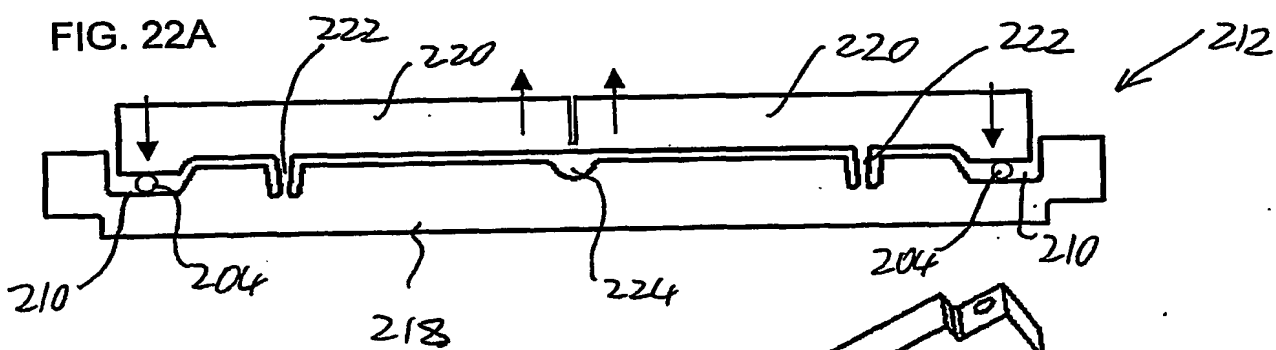
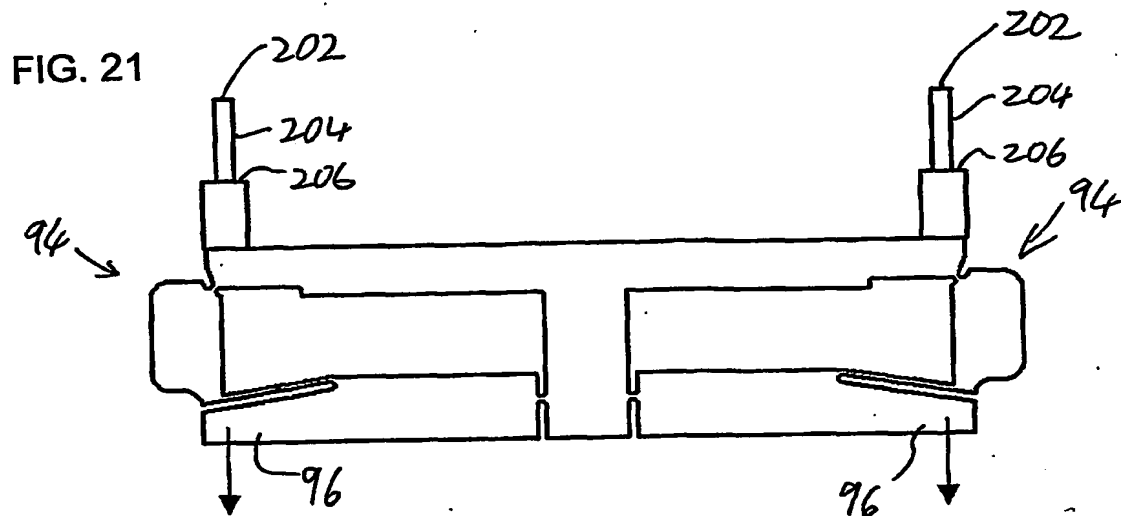


FIG. 23